

**THIRD
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Application Number	10/820,842
Filing Date	April 9, 2004
First Named Inventor	Jun-ichi Ishikawa et al.
Examiner Name	Tracy Mae Dove
Attorney Docket No.	1033622-000008

MAY 01 2007

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
<i>TD</i>	2004-047244*	A	JAPAN	02-12-2004						X*	
	2000-299117*	A	JAPAN	10-24-2000						X*	
	11-067224*	A	JAPAN	03-09-1999						X*	
	04-144062*	A	JAPAN	05-18-1992						X*	

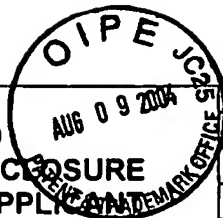
NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

*Copy attached.

Examiner Signature	<i>Doc Dove</i>	Date Considered	<i>June 14, 2007</i>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number 10/820,842
 Filing Date April 9, 2004
 First Named Inventor Jun-ichi ISHIKAWA et al.
 Examiner Name
 Attorney Docket Number 033622-008

U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
[Signature]	6,221,923		Schnurnberger et al.	04-24-2001
	6,090,895		Mao et al.	07-18-2000
	6,180,559		Roberts et al.	01-30-2001
	2002-0091225		McGrath et al.	07-11-2002
	6,087,031		Iwasaki et al.	07-11-2000
	2002-0103306		Kerres et al.	08-01-2002
	5,795,496		Yen et al.	08-18-1998
	5,438,082		Helmer-Metzmann et al.	08-01-1995
	5,561,202		Helmer-Metzmann et al.	10-01-1996
	5,741,408		Helmer-Metzmann et al.	04-21-1998
	6,214,488		Helmer-Metzmann et al.	04-10-2001

FOREIGN PATENT DOCUMENTS

Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS						
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract	Cited in Spec
[Signature]	10-045913	A	JP* (corres to US 6,087,031)	02-17-1998		Abst					X
	00/66254	A1	WO* (corres to US 2002-103306)	11-09-2000						X	X
	63-305904	A	JP*	12-13-1988		Abst					X
	52-091788	A	JP*	08-02-1977		Abst					X
	02-248434	A	JP*	10-04-1990		Abst					X
	04-130140	A	JP*	05-01-1992		Abst					X
	2000-501223	A	JP* (corres to US 5,795,496)	02-02-2000							X
	52-099982		JP*	08-22-1977		Abst					X
	06-093114	A	JP* (corres to US 5,438,082, 5,561,202, 5,741,408, 6,214,488)	04-05-1994		Abst					X
	2003-012795	A	JP*	01-15-2003		Abst/ clms					
	2003-068327	A	JP*	03-07-2003		Abst/ clms					
	2003-217342	A	JP*	07-31-2003		Abst/ clms					
	2003-217343	A	JP*	07-31-2003		Abst/ clms					
	2003-147075	A	JP*	05-21-2003		Abst/ clms					

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
[Signature]	F. WANG et al., "Sodium sulfonated-functionalized poly(ether ether ketone)s," <i>Macromol. Chem. Phys.</i> , 1998, pp 1421-1426, Vol. 199, Huthig & Wepf Verlag, Zug, Switzerland*
[Signature]	F. WANG et al., "Synthesis of poly(ether ether ketone) with high content of sodium sulfonated groups, and its membrane characteristics," <i>Polymer</i> , 1999, pp 795-799, 40, Elsevier Science Ltd. *

Examiner Signature	Date Considered
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SECOND INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2** of **2**

Complete if Known

Application Number	10/820,842
Filing Date	April 9, 2004
First Named Inventor	Jun-ichi ISHIKAWA et al.
Examiner Name	
Attorney Docket Number	033622-008

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	S. LIU et al., "Novel sodium sulfonated-functionalized poly(ether ether ketone)s derived from 4,4'-thiodiphenol," <i>Polymer</i> , 2001, pp 3293-3296, 42, Elsevier Science Ltd. *
	I. HONMA, "Organic-inorganic Hybrid Membrane--Application to Proton Conductive Solid Polymer Electrolyte Membrane," <i>The Third Separations Science & Technology Study Meeting</i> , 1999, pp 17-20, The Society of Polymer Science, Japan (English translation) *
	English translation of Abstract and claims of JP 2002-358978, published 12-13-2002.*
	English translation of Abstract and claims of JP 2002-367627, published 12-20-2002.*
	English translation of Abstract and claims of JP 2002-121281, published 04-23-2002.*
	English translation of Abstract and claims of JP 2002-105199, published 04-10-2002.*




* Copies attached.

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO & 1449B/PTO			Complete if Known		
FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>			Application Number		
			Filing Date	April 9, 2004	
			First Named Inventor	Ishikawa, Junichi et al.	
			Examiner Name		
Sheet	1	of	1	Attorney Docket Number	033622-008

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
<i>[Signature]</i>	2001-0020082		Faure et al.	09-06-2001

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	Translation	
					Yes	No
	96/29359		WO	09-26-1996		
	00/15691		WO	03-23-2000		
	01/25312		WO	04-12-2001		

NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>[Signature]</i>	Japanese Published Application No. 2002-105199, April 10, 2002, Abstract only.
<i>[Signature]</i>	Japanese Published Application No. 2002-121281, April 23, 2002, Abstract only.
<i>[Signature]</i>	Japanese Published Application No. 2002-358978, December 13, 2002, Abstract only.
<i>[Signature]</i>	Japanese Published Application No. 2002-367627, December 20, 2002, Abstract only.

Examiner Signature	<i>[Signature]</i>	Date Considered	June 14, 2007
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